



COUNTY OF PLACER
ADMINISTRATIVE SERVICES DEPARTMENT
Procurement Services Division
2964 Richardson Drive
Auburn CA 95603
Phone: 530-889-7776

INVITATION FOR BIDS

Bidder Acknowledgement

RELEASE DATE: September 8, 2006
BID NO. 9616
TITLE: CNG Fueled Dump Truck
DUE DATE: October 2, 2006, 3:30 PM *(Bids shall not be accepted after this date/time)*

All questions regarding this solicitation shall be directed to:

Buyer Name: Steven M^cCredie, CPPB

Telephone: 530-889-4257

This package includes the following documents:

Attachment A: Bid Form

☒

Attachment B: Specifications

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☐
☐

Type of Award:

Fixed Contract (Purchase Order)

☒

Open-End Contract (Blanket Purchase
Order) for the approximate period:

☐

Bidder shall complete the area below. Unsigned bids shall be rejected; no exceptions.

The undersigned offers and agrees, if this bid is accepted within **90 calendar days** from the date of opening, to furnish all of the items upon which prices are quoted, at the prices set opposite each item, delivered at the designated point(s) by the method of delivery and within the time specified herein and subject to the Terms and Conditions of this IFB, including any and all addenda. In the event of a contract award pursuant to this bid, performance by the successful bidder of any or all of the services, or delivery of any or all of the products defined herein, shall constitute acceptance of all terms, conditions and requirements of the resulting agreement. I declare under penalty of perjury that I have not been a party with other bidders to an agreement to bid a fixed or uniform price.

Addendum Received, No(s). _____

NAME OF FIRM: _____

Mailing Address: _____

City/State/Zip: _____

Contact Person: _____

Telephone: _____ Fax: _____

By (signature): _____ Title: _____

NO BID: ☐ Reason: _____

INVITATION FOR BIDS GENERAL TERMS AND CONDITIONS

The following provisions are hereby made a part of this bid by reference and attachment to this Invitation for Bids document. **Any contract award made as the result of this bid shall be governed by these General Terms and Conditions.** By signature in the space provided for bidder in these documents, bidder does agree to furnish the product(s) and/or service(s) pursuant to these conditions.

WARNING: It is the bidder's responsibility to monitor the County's website for possible addenda to this bid to inform him/herself of the most current specifications, terms, and conditions (see also Section 4 below), and to submit his/her bid in accordance with the original bid requirements and all addenda. All available bids and related addenda can be found at : www.placer.ca.gov/admin/procurement/openbids.htm
Failure of bidder to obtain this information shall not relieve him/her of the requirements contained therein. Additionally, failure of bidder to return a signed addenda, when required, may be cause for rejection of his/her bid.

1. **GENERAL.** These provisions are standard for all County contracts. The County may delete or modify any of these standard provisions for a particular contract by indicating a change in the special instructions to bidders or in the bid. **Any bidder accepting a contract award as the result of this bid agrees that the provisions included within this Invitation for Bid shall prevail over any conflicting provision within any standard form contract of the bidder.**
2. **SUBMISSION OF BIDS.** Bids shall be submitted to the Procurement Services Division, 2964 Richardson Drive, Auburn, California, 95603, between the hours of 8:00 am and 5:00 PM (Pacific), Monday through Friday (excluding County holidays), prior to the date and time specified in this solicitation. Bids shall be submitted in a sealed envelope which clearly identifies the bid number, commodity, and closing date and time. Bids shall be submitted on the bid forms provided by the County. Bids must be signed by an authorized employee. The County shall not be responsible for bids delivered to a person/location other than that specified herein. Bids shall be in ink or typewritten and all changes and/or erasures shall be initialed and dated in ink. Any exceptions to the specifications, terms, or conditions of this solicitation shall be clearly indicated by bidder, without obliterating the original text or images contained herein.
WARNING: Late bids or unsigned bids shall not be accepted under any circumstances. Facsimile, telegraphic or telephone bids shall not be accepted.
3. **ALTERATION OF BID DOCUMENTS.** Bidder hereby agrees, by signature on the face of this bid, that s/he has not altered the specifications, terms, or conditions of these documents, except as to clearly indicate exception to the requirements herein. Bidder also understands that, should it be discovered that the bidder altered these documents in a way that misleads or deceives the County as to the terms and conditions of their response, their bid shall be rejected and the bidder may be debarred in accordance with the processes defined in the Placer County Purchasing Policy Manual.
4. **AMENDMENTS TO THE BID.** Any amendment to this bid is valid only if in writing and issued by the Placer County Procurement Services Division.
5. **NO BID.** Persons desiring not to submit a bid should return the Bidder Acknowledgment marking it "NO BID," no later than the stated bid opening date and time, and state the reason in the response. Failure to respond by the bid deadline may result in removal of the bidder's name from the bid mailing list. **NOTE:** To qualify as a respondent, bidder must submit a timely "NO BID."
6. **NON-COLLUSION.** The bidder certifies that his bid is made without any previous understanding, agreement or connection with any person, firm or corporation making a bid for the same project and is in all respects fair, without outside control, collusion, fraud or otherwise illegal action.
7. **CONFLICT OF INTEREST.** Bidder states that no County officer or employee, nor any business entity in which they have an interest, has an interest in the bid awarded or has been employed or retained to solicit or aid in the procuring of the resulting contract, nor will any such person be employed in the performance of such contract.
8. **AWARD.** The contract may be awarded to the lowest responsible and responsive bidder complying with the provisions of the Invitation for Bid. In determining whether a bid is lowest and responsive, and the bidder responsible, the following may be considered by the County: a) Ability to perform the service required within the specified time; b) Reputation, judgment and experience; c) The quality of performance in previous contracts;

- d) Previous compliance with laws, as well as employment practices; e) Financial ability to perform the contract; f) The quality, availability and adaptability of the supplies or the contractual services to the particular use required; g) Ability to provide maintenance and service; h) Whether the bidder is in arrears to the County, in debt on contract, is a defaulter on surety to the County or whether the bidder's taxes or assessments are delinquent; i) The resale value and life cycle costs of the items; j) Such other information as identified in the Purchasing Policy Manual having bearing on the decision to make the award. The County reserves the right to reject any and all bids and to waive any informality in bids received whenever such rejection or waiver is in the interest of the County. The County also reserves the right to reject the bid of a bidder who has previously failed to perform properly. The County may award bids by line item, category, or on an all-or-none basis.
9. **MERCHANTABILITY.** There shall be an implied warranty of merchantability and fitness for an intended use. Any bid submittals taking exception to this requirement may, at the County's option, be considered non-responsive.
10. **SAMPLES.** Samples of items, when required, must be furnished free of expense to Placer County and if not destroyed by tests will, upon request, be returned at bidder's expense. Samples of selected items may be retained for comparison.
11. **MANUFACTURER'S NAME AND APPROVED EQUIVALENTS.** Unless otherwise specified, manufacturer's names, trade names, brand names, information and/or catalog numbers listed in a specification are intended only to identify the quality level desired. They are not intended to limit competition. The bidder may offer any equivalent product, which meets or exceeds the specifications. If bids are based on equivalent products, the bids must: 1) Indicate on the bid form the alternate manufacturer's name and catalog number; 2) Include complete descriptive literature and/or specifications; 3) Include proof that the proposed equivalent shall meet the specifications. The County reserves the right to be the sole judge of what is equal and acceptable. If bidder fails to name a substitute, goods identical to the bid standard must be furnished.
12. **INDEMNIFICATION.** Unless indemnification requirements are stated otherwise in this solicitation, said requirements shall be as follows: The Contractor hereby agrees to protect, defend, indemnify, and hold Placer County free and harmless from any and all losses, claims, liens, demands, and causes of action of every kind and character including, but not limited to the amounts of judgments, penalties, interest, court costs, legal fees, and all other expenses incurred by Placer County arising in favor of any party, including claims, liens, debts, personal injuries, death, or damages to property (including employees or property of the County) and without limitation by enumeration, all other claims or demands of every character occurring or any way incident to, in connection with or arising directly or indirectly out of, the contract or agreement. The Contractor agrees to investigate, handle, respond to, provide defense for, and defend any such claims, demand, or suit at the sole expense of the Contractor. Contractor also agrees to bear all other costs and expenses related thereto, even if the claim or claims alleged are groundless, false, or fraudulent. This provision is not intended to create any cause of action in favor of any third party against Contractor or the County or to enlarge in any way the Contractor's liability but is intended solely to provide for indemnification of Placer County from liability for damages or injuries to third persons or property arising from Contractor's performance pursuant to the resulting contract or agreement.
13. **FORCE MAJEURE.** If an emergency or natural disaster causes delay or interferes with the use or delivery of the products/services described in this bid, deliveries may be suspended as long as needed to remove the cause or repair the damage. An emergency or natural disaster includes fire, flood, blizzard, strike, accident, consequences of foreign or domestic war, or any other cause beyond the control of the parties. The County reserves the right to acquire from other sources any products/services during any suspension of delivery.
14. **TAXES.** Placer County is exempt from Federal Excise Tax; an exemption certificate will be furnished upon request. Placer County is not exempt from California State sales/use taxes. All applicable State sales/use taxes will be added to the purchase order.
15. **DELIVERY.** All prices bid must be FOB Destination, unloaded inside and assembled unless otherwise indicated.
16. **FIXED CONTRACT QUANTITIES.** Purchase order(s) for full quantities will be issued to successful bidder(s) after notification of award and receipt of all required documents.
17. **OPEN-END CONTRACT (BLANKET PURCHASE ORDER).** No guarantee is expressed or implied as to the total quantity of commodities/services to be purchased under any open-end contract. Estimated quantities/bid ratio or discounts from manufacturer's list price may be used for bid comparison. The County reserves the right to: issue purchase orders as and when required; or issue a blanket purchase order for individual agencies or multiple County agencies; or any combination of the preceding. No delivery shall be made without a written order by the County, unless otherwise specifically provided for in the contract. If in a subsequent year the vendor offers to

supply his goods and service for the same bid price, or in the event the supplier is willing to negotiate to the satisfaction of Placer County any justifiable price increase prior to the succeeding year's contract renewal and if the service provided by the supplier was to the satisfaction of the County, the County of Placer reserves the right to extend the period of the resulting contract on a year-to-year basis. Alternatively, the bid solicitation may set forth specific renewal terms. Bidder certifies that prices charged to the County for non-listed commodities or no-fixed price items are equal to or less than those charged the bidder's most favored customer for comparable quantities under similar terms and conditions.

18. **NON-APPROPRIATION.** In the event that sufficient funds are not appropriated and budgeted for the payment of goods or services described herein, the agreement shall immediately terminate on the last day of the fiscal period for which appropriations were received or other amounts were available to pay the amounts due under the agreement, without penalty or expense to the County of any kind whatsoever, except that the County will be liable for payment of any unpaid invoices for goods or services which were delivered prior to the end of the last fiscal period for which appropriations were made.
19. **RIGHTS AND REMEDIES OF COUNTY FOR DEFAULT.** If any item furnished by the vendor fails to conform to bid specifications, or to the sample submitted by the vendor with his bid, the County may reject it. Upon rejection, the vendor must promptly reclaim and remove such item without expense to the County, and shall immediately replace all such rejected items with others conforming to such specifications or samples. If the vendor fails to do so, the County has the right to purchase in the open market a corresponding quantity of any such items and to deduct from any monies due the vendor the difference between the price named in the contract or purchase order and the actual cost to the County. If the vendor fails to make prompt delivery of any item, the County has the right to purchase such item in the open market and to deduct from any monies due the vendor the difference between the price named in the contract or purchase order and the actual replacement cost to the County. If the vendor breaches the contract or purchase order, any loss or damage sustained by the County in procuring items which the vendor therein agreed to supply shall be borne and paid for by the vendor. The rights and remedies of the County identified above are in addition to any other rights and remedies provided by law or under the contract. In any legal proceeding brought to enforce the terms of the herein agreement, the prevailing party shall be entitled to an award of reasonable attorney's fees and costs incurred as a result of enforcing the terms of this agreement.
20. **LOCAL VENDOR PREFERENCE.** A local preference credit of 5.0% for Placer County businesses will be permitted when evaluating bids for supplies, equipment, materials and services that are not part of a public project. Bidders claiming local vendor preference must submit an Affidavit of Eligibility with their bid, unless an authorized affidavit is already on file. Preference criteria and affidavit forms may be faxed to you by using our self-service "fax on demand" system. Dial 530/889-7776, press option 4 then enter your full fax number when prompted (include 1 + your area code if you are not in the 530 area). This information is also available on our website at: www.placer.ca.gov/admin/procurement/lvp_affidavit.htm
21. **INVOICES AND PAYMENT TERMS.** Invoices are to be mailed to the County department specified on the resulting purchase order, blanket purchase order or contract. All invoices must include the purchase order number, blanket purchase order number, or contract number. Failure to comply will result in delayed payments. The County will make payment on a Net 30-day basis unless a cash discount of one-half percent (1/2%) or greater, which amounts to \$2.50 or more, is allowed for payment within not less than twenty (20) days. The payment term shall begin on the date the merchandise is inspected, delivered and accepted by the County, or on the date a correct invoice is received in the office specified in the order, whichever is later. Prompt payment discounts shall be considered earned if payment is postmarked or personally delivered within the prescribed term. For the purposes of this section, the beginning date described above shall be considered day zero for the purposes of counting days in the prescribed term.
22. **LEGAL REQUIREMENTS.** Federal, State, County and local ordinances, rules and regulations, and policies shall govern development, submittal and evaluation of bids and disputes about bids. Lack of knowledge by any bidder about applicable law is not a defense.
23. **ASSIGNMENT.** Any contract awarded shall not be assignable by the vendor without the express written approval of the County, and shall not become an asset in any bankruptcy, receivership or guardianship proceedings.
24. **OTHER AGENCIES.** The successful vendor shall agree to extend Placer County contract prices and terms to other governmental agencies. Any contract resulting from this requirement shall be executed by the successful vendor and the other agency. Placer County will not be a party to "other agency" contracts.

25. **PROTEST AND APPEAL PROCESS.** Any actual or prospective bidder or contractor who is aggrieved in connection with the solicitation or award of a contract may protest to the Director of Administrative Services in the manner prescribed by Section 10.0 of the Placer County Purchasing Policy. The protest shall be submitted in writing to the Director of Administrative Services within seven (7) calendar days after such aggrieved person or company knows or should have known of the facts giving rise thereto.
26. **RECYCLED PRODUCT PREFERENCE.** A preference of 10% will be given to bids for products meeting the definition of recycled product cited in Public Contract Code Sections 12161 and 12200.
27. **PATENT INFRINGEMENT.** Supplier shall indemnify and hold harmless County, its agents and employees, against and from any and all actions, suits, liabilities, prosecutions, penalties, settlements, losses, damages, costs, charges, attorney's fees, and all other expenses which may arise directly or indirectly from any claim that any of the products supplied by supplier infringes any patent, copyright, trade secret, or other property right.
28. **VENDOR FINANCIAL STABILITY.** If a vendor is currently involved in an ongoing bankruptcy as a debtor, or in a reorganization, liquidation, or dissolution proceeding, or if a trustee or receiver has been appointed over all or a substantial portion of the property of the vendor under federal bankruptcy law or any state insolvency law, the vendor must provide the County with that information as part of its bid/proposal. In accordance with Section 3.12(g) of the Placer County Purchasing Policy Manual and paragraph 8.e. of this document, the County may use information regarding a bidder's financial responsibility when making an award determination.

The County reserves the right to take any action available if it discovers a failure to provide such information to the County, including but not limited to, a determination that the vendor should be declared non-responsible and/or non-responsive, and suspension or debarment of the vendor, in accordance with the processes defined in the Placer County Purchasing Policy Manual.

By submitting a bid/proposal in response to this solicitation, the vendor agrees that if, during the term of any contract it has with the County, it becomes involved as a debtor in a bankruptcy proceeding, or becomes involved in a reorganization, liquidation, or dissolution proceeding, or if a trustee or receiver has been appointed over all or a substantial portion of the property of the vendor under federal bankruptcy law or any state insolvency law, the vendor will immediately provide the County with a written notice to that effect and that it will provide the County any relevant information requested in order for the County to determine whether the vendor has the financial ability to meet its obligations to the County.

-- End of General Terms and Conditions --

BID FORM
 (to be completed by bidder)

1. INTRODUCTION

Placer County is requesting bids for the purchase of a new, current model year (2007) CNG Fueled Dump Truck. Bids shall be submitted in accordance with the specifications, terms and conditions contained herein. The County requests that bidders offer a Warren Model FL650 Dump Body or equal.

BIDDERS SHALL PROVIDE MANUFACTURER'S LITERATURE AND SPECIFICATIONS FOR THE EQUIPMENT OFFERED HEREIN.

2. PRICING

NOTE: California tire tax shall be listed as a separate cost item where requested. The appropriate total tire tax will be added by the County to any resulting purchase order.

<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Ext.</u>
2 ea.	10-12 Yard Dump Truck per specifications in Attachment B	_____	_____
	7.25 % CA Sales Tax		_____
	CA Tire Tax (per tire) _____ X Qty tires per truck _____ (including spares)	X 2 (trucks)	_____
	Delivery to Auburn		_____
	Bid Ref. Total		_____

Truck Make/Model: _____

Engine Make/Model: _____

Transmission Make/Model: _____

Body Manufacturer: _____

3. DELIVERY

Delivery shall be made within _____ (days) ARO to Auburn, CA 95603

The truck shall be fully licensed, registered at time of delivery, and shipped complete.

License and Weight Certificate: The original dealer's report of sale or manufacturer's state of origin and a certified weight certificate shall be furnished at the time of delivery. Failure to provide the necessary documents at time of delivery shall delay payment.

4. INVOICE/PAYMENT TERMS

Invoice Terms: _____ or _____ % discount if paid within _____ days;

OR Net payment due within _____ days

Refer to Section 21 of the General Terms and Conditions for the County's payment policy.

5. WARRANTIES

Bidders shall include complete descriptive literature on the manufacturer's warranties. Failure to include this information may result in rejection of the bid. Bidders shall include a copy of the special provisions applicable to the warranties offered.

STANDARD WARRANTY COVERAGES

Bidders shall include the following minimum warranties, parts and labor included:

Truck Cab & Chassis	100,000 miles/1 year, parts and labor
Engine	unlimited miles/2 years, parts and labor
Transmission	unlimited miles/3 years, parts and labor
Axles	unlimited miles/3 years, parts and labor

Engine & transmission may be warranted by the respective manufacturers. **Bids which do not include these minimum warranty requirements may be rejected.**

Bidders shall indicate the warranty included in the pricing offered herein.

A. Truck Cab & Chassis

Parts: _____ miles _____ years
Labor: _____ miles _____ years

B. Engine

Parts: _____ miles _____ years
Labor: _____ miles _____ years

C. Transmission

Parts: _____ miles _____ years
Labor: _____ miles _____ years

D. Axles

Parts: _____ miles _____ years
Labor: _____ miles _____ years

EXTENDED WARRANTY COVERAGES

Indicate if extended warranty coverage is available beyond that offered above, and the cost for each extended warranty program. At a minimum, extended warranty for engine shall be five (5) years or 300,000 miles and the transmission shall be five (5) years unlimited mileage. The purchase of extended warranties shall be solely at the County's discretion.

A.	Truck Cab & Chassis	Cost: \$_____
	Parts: _____ miles _____ years	
	Labor: _____ miles _____ years	
B.	Engine	Cost: \$_____
	Parts: _____ miles _____ years	
	Labor: _____ miles _____ years	
C.	Transmission	Cost: \$_____
	Parts: _____ miles _____ years	
	Labor: _____ miles _____ years	
D.	Axles	Cost: \$_____
	Parts: _____ miles _____ years	
	Labor: _____ miles _____ years	

WARRANTY SERVICE

Bidders shall indicate the name and location of the factory-authorized warranty station nearest Auburn, California. The warranty stations must be familiar with all components of the vehicle being bid. Please indicate the distance from Auburn in miles.

	<u>Name & Address of Warranty Provider</u>	<u>Distance</u>
Cab & Chassis:	_____	_____

Engine:	_____	_____

Transmission:	_____	_____

Axles:	_____	_____

6. MISCELLANEOUS

Early Payment Discount Periods: Early payment invoice terms (if offered) shall begin from time of County's acceptance of the trucks. Any deviation from bid specifications will delay the start of such invoice term period (Ref. Bid's General Terms and Conditions, Section #21). It is the successful bidder's responsibility to ensure that the delivered trucks match the specifications as bid by the bidder and accepted by the County. Early payment discount periods of 20 days or more will be considered during bid award consideration as noted below.

Local Vendor Preference (LVP): In accordance with this Bid's General Terms and Conditions, Section 20, a local vendor preference credit of 5%, but not cumulatively greater than \$5,000.00 shall be permitted to Placer County businesses.

7. BID EVALUATION

The County shall make final determination of the acceptability of any exceptions and options offered. Primary bid evaluation shall be based upon compliance to specifications and upon the Bid Reference Total, which includes all applicable taxes. Applicable LVP credit and qualifying early payment invoice discounts shall also be considered during bid evaluation.

In the case of extended warranties, if sufficient funding is available to purchase these warranties, the County may elect to purchase one or more of the warranty upgrades on a case by case basis. However, bid evaluation shall be made exclusive of the extended warranties.

**Specifications - Dump Truck
 with a Warren FL650 Dump Body**

It is the intent of the specifications included herein to describe a new, current model year dump truck. The equipment provided shall include, but not necessarily be limited to the specifications included for the truck.

INSTRUCTIONS TO BIDDERS: Bidders shall indicate compliance with specifications by stating “YES” or “NO” adjacent to each item offered by the bidder. IF “NO”, BIDDER SHALL FULLY EXPLAIN THE NATURE OF THE EXCEPTION(S) IN THE SPACES PROVIDED WITH EACH SPECIFICATION SHEET.

This specification describes a 10-12 yard dump truck mounted on a Crane Carrier LET2 chassis in a 6 X 4 configuration. Bidders may offer an alternate. It is the bidder's responsibility to prove that their truck is equal to or superior to the truck described herein. **The County shall make final determination of the acceptability of any exceptions.**

<u>SPECIFICATIONS</u>		<u>Yes</u>	<u>No</u>
Engine:	Cummins L Gas Plus CNG 320 hp, in line 6-cylinder turbocharged CNG engine or equal	___	___
	Rated for 320 hp @ 2,300 RPM	___	___
	Rated for 1,000 ft./lbs. torque @ 1,400 RPM	___	___
	Oil filter – full flow, spin on type, engine mounted	___	___
	Coolant filter – spin on type	___	___
Transmission:	Allison 4500 RDS, 6-speed automatic with PTO or equal	___	___
	Full flow filter	___	___
Engine Protection:	Automatic with 30-second warning before shutdown for low engine oil pressure, low coolant level, and high coolant temp.	___	___
Dipsticks:	Twist and lock type. Engine and transmission oil dipsticks routed to right side location behind the cab in a flexible nylon tube, marked and color coded for quick identification and readily accessible without tilting cab.	___	___
Air Compressor:	Wabco 18.7 CFM with direct coupled drive, piped directly through engine air intake plumbing.	___	___
Cooling:	Radiator is remotely mounted behind the cab and above the engine, with a shield core. Radiator has a 1,200 square inch core area with heavy-duty cross flow design and construction with bolted end tanks and 2-row, 14 fin core. Water/antifreeze mix – 50/50 to -34° F freeze protection with a low coolant probe mounted in surge tank. Maximum ambient operating temperatures are: 97° F at continuous peak torque and 106° F at continuous peak horsepower.	___	___
Cooling Fan:	Reinforced plastic molded 9-blade, 28” diameter, sucker type fan that is hydrostatically driven and thermostatically controlled.	___	___

SPECIFICATIONS

	<u>Yes</u>	<u>No</u>
Engine Cooling Hoses: All coolant hoses shall be silicone with stainless steel constant torque type hose clamps.	___	___
Charge-Air Cooler: Heavy-duty welded type air cooler with a rubber sealed aluminum core and cast aluminum tank construction. Silicon rubber molded hoses with stainless steel type hose clamps; solid molded in front of radiator.	___	___
Air Intake: Donaldson FRG-15 inch Radiaseal, dry element, 2-stage filtration type with safety element, air restriction/service indicator on air filter outlet. Air intake shall have a 90° ram air hood with water separator located approximately 17" above the cab, left hand side, painted stack.	___	___
Engine Exhaust: Stainless steel diesel Oxidation Catalyst (DOC) muffler and 4" stainless steel exhaust tubing, bright heat shield on left (street side), mounted vertically, outboard and above frame behind cab, 48" tall tailpipe with curved elbow outlet.	___	___
Batteries: Two, 12-volt Group 31, low maintenance type with combined rating of 1,850 CCA. Battery cables shall be 0000 size with molded color coded ends, covered with heat resistant corrugated plastic loom.	___	___
Battery Box: Two piece fabricated steel battery box. 17.5" wide X 12" tall X 25" deep with painted steel latching cover and two hand holes – one each side of the cover, mounted on left (street side) outside of frame rail, 4" down from top flange and 35.25" behind centerline of front axle.	___	___
Starter: Delco-Remy 42 MT/type 400 Positork motor, 12 volt, negative ground.	___	___
Alternator: Delco-Remy 21SI, 160 amp, belt driven, 12 volt negative ground.	___	___
CNG Fuel Tank: 53.6 gallon diesel equivalent mounted in a steel cabinet behind the cab with fuel valve shut off on fill inlet.	___	___
Transmission: Allison 4500 RDS, 6 speed automatic shift type. Includes 10 bolt PTO mounting pad both sides with internal oil filter, integral oil cooler in radiator.	___	___
Transmission Shifter: Pushbutton style keypad shift controller, illuminated digital display with indicator lights and low fluid level indicator and gear/mode display.	___	___
Propshafts: Dana-Spicer "Life Series" SPL main shaft and SPL 170 auxiliary shaft with bolted half round bearing yokes on transmission and axle U-joints. Each universal joint has a lubrication fitting accessible from two directions. Glide coat splines shall be provided on all intermediate slip shafts. All spline connectors shall have boot covers.	___	___

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Front Axle:	Dana-Spicer EGA-20F4 wide track; 20,000 lbs. capacity with maximum wheel cut. Axle shall be designed to take severe service typically associated with heavy refuse and snowplow applications.	___	___
Front Brakes:	Air operated 16.5" X 6" "S" cam type with Extended Service (ES) linings, cast iron drums, dust shields, Bendix/ASA automatic slack adjusters, 24" brake changers with stroke indicators, ABS wheel end sensors. Axle shall include rubber plugged brake lining inspection holes in dust shields.	___	___
Front Suspension:	Tapered, parabolic springs 4" wide X 50.5" long. 20,000 lbs capacity at the ground. Springs shall be of front eye and rear slipper configuration. The inner rubber bushing should be held in compression and cannot extrude. Low profile spring brackets should allow for 19" loaded vehicle cab floor height from ground with 11" frame channel.	___	___
Shock Absorbers:	Front suspensions shall include 2 heavy-duty 1.62" bore hydraulically dampened, double acting type shock absorbers. Tandem axle "HN" type rear suspension shall have shock absorbers.	___	___
Steering Gear:	Sheppard 592-S integral power assist type steering gear, frame mounted; 16 quart remote reservoir with sight glass and 3 replaceable filters; glide coated slip shaft splines on intermediate shaft between gear and column. Steering linkages shall utilize full ball joints. Grease fittings shall be included on tie rod ends, drag links, and intermediate shaft.	___	___
Steering Column:	Tilt/telescoping. Headlight dimmer switch mounted on column, self cancelling turn signal switch integral to steering column and 4 way hazard lever.	___	___
Steering Wheel:	Steering wheel shall be black, soft touch, 18" diameter, 2 spoke type with center horn button.	___	___
Tandem Axles:	Dana-Spicer model DS405-P single reduction gearing, 15.4" diameter ring gear, spiral bevel type, on-highway rating 40,000 lbs capacity, tandem axle, ratio shall be set for 62 MPH maximum.	___	___
Rear Brakes:	Air operated 16.5" X 7" "S" cam brakes with non-asbestos Extended Service (ES) linings, cast iron drums, dust shield, spring type "piggy back" park brake chambers all rear wheels, anti compound brake system, Bendix/ASA automatic slack adjusters, 30" brake chambers with stroke indicators, ABS wheel end sensors. Axles should include rubber plugged brake lining inspection holes in dust shields.	___	___

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Rear Suspension:	Hendrickson #HN-402, rated 40,000 lbs. capacity, 54" walking beam centers, 1 transverse and 1 longitude rod on each axle.	_____	_____
Tires:	<p><u>Front (two with one spare).</u> All tires shall be 315/80R22 LR (L), 20-ply Bridgestone R296 or equal radial tubeless. Rated for 10,000 lbs. each at 55 MPH continuous or at 65 MPH for 1 hour. Continuous 65 MPH load rating – 16,540 lbs. All 3 tires shall be exactly the same. Spare shall be mounted on a wheel as described below.</p> <p>If you are offering an "equal" tire list Mfr. make & model</p> <hr/> <p><u>Rear (eight with one spare).</u> All tires shall be 11R22 LR (H), 15-ply Bridgestone R2250F or equal radial tubeless. Rated for 6,005 lbs. each at 75 MPH continuous. All 9 tires shall be exactly the same. Spare shall be mounted on a wheel as described below.</p> <p>If you are offering an "equal" tire list Mfr. make & model</p> <hr/>	_____	_____
Wheels:	<p>Ten hole design, 11.25" B.C. hub piloted aluminum disc wheels with a minimum of 2 hand holes. Rim center shall be piloted to align onto the axle hub for more positive wheel centering.</p> <p>Front: Three 22.5" X 9" steel disc wheels rated at 10,000 lbs. each.</p> <p>Rear: Nine 22.5" X 8.25" steel disc wheels rated at 7,400 lbs. each.</p>	_____	_____
Wheel Seals:	Front and rear – Stemco oil seals, oil lubricated.	_____	_____
Frame Construction:	Straight full depth, formed "C" shaped side member rails measuring 11" X 3.5" X .38" thick @ 21.5 lbs per foot, heat treated steel 110,000 psi minimum yield. Section Modulus (SM): 18.61 in. ³ , rated RBM: 2,047,000 in. lbs minimum per rail from front axle to end of frame. 25' length ladder type frame with 34" nominal width outside frame rails fabricated and reinforced tubular cross members, fastened with torque prevailing SAE Grade 8 flanged head nuts and bolts, no projections above top flange, wheelbase shall be set to maximum legal loading. Frame shall be warranted for the life of the truck for breakage, twisting, and sagging.	_____	_____
Wheelbase:	Set for maximum legal loading with 14' ten yard asphalt type dump truck.	_____	_____
Bumper:	Full width of cab, .19" thick steel formed 16" tall channel bolted to chassis frame. 19.5" ground clearance shall be provided for increased approach angle, cutouts for turn signals and access to front tow pins shall be provided. Top of bumper shall be 35.5" above the ground.	_____	_____
Towing Provisions:	Two pins recessed, mounted through front of frame and behind bumper.	_____	_____

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Air Brake System:	FMVSS 121 dual circuit ABS/4 channel type air braking system, color coded nylon tubing, quick connect/disconnect brake line fittings, steel air tanks with petcock type drain valves, drain pull cord on primary tank, stainless steel braided/Teflon lined air compressor discharge line. Three air tanks shall be located inboard of frame rails, 6,360 cubic inches minimum air reservoir capacity on tandem rear axle chassis. Shall include low pressure warning light and alarm when air brake system pressure drops below 60 PSI.	_____	_____
ABS System:	Bendix/4 channel cab mounted system with wheel end sensors, dash mounted indicator lamp and code check switch. The 4S/4M ABS system configuration shall maintain four wheel end sensors and four electronically controlled modulator valves, one at each wheel end (2 per axle). Rear axle sensors shall be located on rearmost axle of tandem set. Data links shall be configured for SAE J1587/1708.	_____	_____
Cab Construction:	Low entry tilt cab, 94" wide X 54" deep X 78" high providing convenient and frequent access in and out, located low and forward of front axle with a 19" floor height from ground on both sides of cab designed for 2 seated passengers. Maximum interior space shall be provided with the engine enclosure low and projecting no farther forward than the forward edge of the driver and passenger seats. All panels shall be 2 sided galvaneel steel for corrosion resistance, no rivets in cab front skin.	_____	_____
Cab Framing:	Reinforced 14-gauge floor welded to sill sides, making a solid foundation. Rear cross sills form a rigid box section when welded to floor panel and side members.	_____	_____
Cab Mounts:	Cab shall be mounted to 4 insulated rubber points; 2 front hinge and 2 rear mountings; 1 latching. Each shall be located more centrally off chassis centerline to reduce torsional input from frame twist, giving cab longer life and a better ride.	_____	_____
Cowl:	One piece, 16 gauge galvaneel steel panel formed with windshield cutout and welded in place.	_____	_____
Dash Tray:	One piece, full width of cab interior, molded plastic. The under tray shall house cab HVAC ducts and cab & chassis electrical system components in modular assemblies.	_____	_____
Dash Panel:	Molded and contoured 1 piece panel design with a textured, non glare gray finish for durable scratch and corrosion resistance. Removable molded instrument and switch panels to provide easy service access.	_____	_____
Roof:	The roof shall be comprised of reinforced 16 gauge single wall construction. Two sided, 16 gauge galvaneel steel panel shall be utilized for corrosion resistance.	_____	_____

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Drip Molding:	Water shall be directed away from side doors and windows by .25" deep channel type gutters located above side doors on both sides of the cab.	___	___
Cab Insulation:	Roof interior, floor, rear exteriors of cab, interior walls and roof of engine compartment shall be insulated with rigid urethane (R9 factor) for heat and acoustics.	___	___
Doors:	Doors shall have galvaneel steel fabricated and welded frames for strength and rigidity, 1 piece, 16 gauge galvaneel steel outer skin shall be bonded to the frame – no rivets or outer reinforcement stiffeners in door construction. Hinges shall be 30" length piano style, bolted to the door and cab frame. Hinge pins shall be stainless steel for corrosion resistance and shall open 90°. The entry opening shall be 39.5" wide X 71" tall for ease of entry and exit with a fixed lower view window that is 9.5" wide X 24.38" tall. The doors shall have a roll down main window with a single door seal around the bottom half and double door seal around the top half. Windows shall be bronze tinted, tempered safety glass in black anodized aluminum extruded frames. Roll down window shall be electric operated by a switch on the dash. Window regulator shall be a push pull cable.	___	___
Door Latch:	Flush mounted paddle type latching door handles on inside and outside with keyed locks.	___	___
Door Trim:	Upper shall be painted the same color of the cab exterior. Lower shall have a 1 piece panel in matching gray interior color, molded plastic with an integral armrest with door pull pocket with a lower storage pocket and shall be removable for service access.	___	___
Cab Exterior:	Front wheel mud flaps with anti spray nylon brush material mounted on front fenders. There shall also be inner fender splash shields.	___	___
Mirrors:	Left and right side, 16" X 7" single flat face. West Coast style "Moto Type" remote control mirrors with stainless steel housing and arms, upper and lower "A" frame brackets with adjustable detents to allow for break away movement when struck, set for 102" wide body, 8" spot mirrors not heated. Mounted to doors.	___	___
Cab Tilt System:	Hydraulic Power-Packer™ cab tilt system with manual pump, raise/lower cab control lever with automatic lock type latch, a single, double acting hydraulic cylinder, with built in velocity fuse for safety, tilts the cabin to 60°. Pump shall be mounted to bracket above the fender over right/curbside front axle, behind cab, pump handle/lever mounted outside of cab on right fender.	___	___

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Windshield:	Bronze tinted and laminated safety type in rubber locking channel for a watertight seal. Flat and split on cab center; two pieces that are 31.5" high X 43" wide with a total of 2,600 square inches of viewable glass area, measuring 61" from ground to bottom of glass for increased visibility.	___	___
Windshield Wipers:	Electric 2 speed wipers include one gallon fluid reservoir on right side, with 2 wet arm type, 18" long wipers on 25" long wet arms with washers.	___	___
Door and Rear Windows:	Door windows shall be electrically raised and lowered. Three pieces, tinted tempered safety type in rubber locking channel, measuring 20" X 16.75" one on each side and 30.25" X 16.57" on center rear of cab.	___	___
Grab Handles:	One black on each side – 15" long entry assist handle inside cab, bolted to "A" pillar. Steel, aluminum, or plastic coated metal, strong enough to facilitate getting in and out of truck.	___	___
Overhead Console:	Provide and install one DIN equipped AM/FM radio in overhead console, four document/clipboard storage compartments, two each side. Mounting locations for cab fans and 2 way radio. The console shall also house dome and map lights.	___	___
Cab and Chassis Wiring:	Packard "GXL" wire, color coded for engine start/stop control ignition switch on left side only, 12 volt negative ground, engine electronic diagnostic connector SAE J1587 & J1708, ignition, battery and ground wires for 2 way radio power feed routed to and capped in overhead console, two spar rocker switches identified in cab and wired to outside twelve lead junction box on rear or left front fender, plug in relays, warning alarms and flashers in dash. Wiring harness shall include sealed "Deutsch" twist lock bulkhead connectors, Packard "Weather Pak" and "Metri Pak" connectors that provide positive locking connections. These connectors shall be used extensively throughout the chassis electrical system. Hard shell grommets shall provide sealed routing of harness through cab and dash, bringing harness connectors inside cab and eliminating exposure to outside elements. Circuit breakers shall be automatic reset and conveniently located below cab dash and provide protection from overloads. The breakers can be reset by de-energizing the circuit and correcting the fault. Dedicated electrical circuits shall be provided for truck body and electrical equipment installations. The successful bidder shall furnish <u>two protected non-labeled switches</u> for the County to use on the dash panel: One 20 amp ignition fused; One fused 20 amp battery fed lead.	___	___

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Instrumentation:	Data Link and Smart Gauges: round 3.38" speedometer and tachometer with message center display including: odometer; two trip odometers; engine hour meter; clock with alarm. Balance of gauges shall be round 2": dual needle air pressure; fuel level; engine coolant temperature; engine oil pressure; voltmeter. All 2" gauges except air pressure shall have internal driver warning lights. There shall be an audible alarm and stop engine light for air pressure gauge. There shall be indicator lights for left and right turn arrows, high beam headlights, check transmission, check engine, stop engine, engine pre-heat (for ISC05/ISL06/C7/C09), park brake, ABS malfunction with back lighting, English text on actuator to identify switch and where required, a function indicator light to reflect system status.	___	___
Lighting:	Two outboard mounted Large Single Rectangular (LSR) 5" X 8" halogen headlights mounted in a chrome bezel and housing, high/low beams, five amber acrylic lens ICC clearance lights mounted flush and over windshield. LED lighting shall be used for exterior lighting except where product is not available for that application. All lighting circuits shall be on separate circuits.	___	___
Dome Lights:	One interior dome light and two map lights shall be located in the overhead console. Dome light shall be automatically operated by a door open switch or can be manually operated with an on/off/auto switch. Map lights shall have individual switches, left and right side.	___	___
Air Horn:	Steering wheel, center button activated, single tone, 12 volt electric horn mounted behind bumper. Air horn mounted under cab.	___	___
Back Up Alarm:	Warn model 210333 or equal rated for 107 dB(A).	___	___
Driver Seat:	Air Ride with gray cloth.	___	___
Passenger Seat:	Non Air Ride type seat.	___	___
Safety Belts:	Two shoulder/lap style assemblies with automatic tensioning type retractors and 7" shoulder height adjustment, pushbutton release, nylon weave belts, black in color.	___	___
Sun Visors:	Left and right side padded with map or document retainers, same gray color as cab interior vinyl.	___	___
Ashtray:	One mounted to shift console to right of driver's position	___	___
Interior Up Level Trim:	Cab back walls below windows, headliner and engine enclosure shall be padded gray vinyl.	___	___

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Vents:	Two Salem type vents shall be mounted on cab roof. Vents shall provide directional air flow and manually operated to open or close.	___	___
Heater/Ventilation:	The system shall provide for increased driver comfort by drawing in outside air and effectively distributing it through 4 large adjustable ducts in the dash – 2 on each side. Outside air enters through heater opening in floor of cab (opening shall be covered with a washable filter/screen), entering cab interior through the heater and vent openings in the heater and cab. Heater/defroster with a 3 speed blower; SAE rated J638 rated for 31,600 BTU/HR at 100° F, fresh air and recirculating outlets directed to floor on both sides of cab. Air conditioning shall be factory installed.	___	___
Colors:	Standard <u>gloss white</u> for cab and dump bed Standard <u>gloss black</u> for front bumper, exhaust, air intake systems, chassis frame assembly and drive train.	___	___
Chassis Paint:	Black, cab and chassis protected with black acrylic urethane (low VOC, high solids) paint.	___	___
Cab Interior:	Interior painted same as exterior white. Panels for instruments, warning lights, switches, and service access are gray “pearlstone” molded plastic. Steering wheel, steering wheel column, rocker switches, instrumentation bezels and chassis controls are black. Overhead console is powder coated gray.	___	___
Miscellaneous:	1. Triangle warning kit	___	___
	2. 10 lbs. fire extinguisher	___	___
	3. Two complete wiring diagrams of the complete truck	___	___
	4. On site operator training	___	___
	5. All software, connectors and special tools to diagnose engine, transmission, and brake anti lock systems.	___	___
	6. Parts manuals for components of the truck, CD reference materials are acceptable.	___	___
	7. Two sets of OEM chassis and body repair manuals that include, but not limited to		
	Engine - service, parts, repair	___	___
	Transmission - service, parts, repair	___	___
	PTO - service, parts, repair	___	___

Exceptions: _____

Dump Body Specifications

This specification describes a Warren FL-650, 14' Dump Body. If your firm is offering an alternate body, provide proof that it meets or exceeds these specifications.

<u>SPECIFICATIONS</u>		<u>Yes</u>	<u>No</u>
Side Height:	34" with Board Pockets	_____	_____
Front & End Height:	42"	_____	_____
Material:	ASTM-A1011-45 Hi-Tensile & AR-400	_____	_____
Sides:	8 gauge	_____	_____
Front:	8 gauge with fully boxed top rail with 2 die formed corrugation reinforcements	_____	_____
Floor:	3/16" AR-400	_____	_____
Tailgate:	7 gauge	_____	_____
Side Braces:	6" wide boxed vertical side braces on each side with 10 gauge fillers between braces to create a double wall.	_____	_____
Board Pockets:	Front, center and rear for 2" X 6" boards	_____	_____
Extra Braces:	Full depth 10" rear corner posts and rear skirt	_____	_____
Top Rail:	4' X 4' X 1/8" boxed structural tubing	_____	_____
Long Sills:	7" channel	_____	_____
Cross Sills:	4" channel on 12" centers	_____	_____
Construction:	Floor/sides knee braces and dirt shedding lower outer rub rails continuously welded side and tailgate.	_____	_____
Tailgate:	Air operated double acting 6 panel fully boxed with 1-1/4" hinges and pins and 5/16" spreader chains with reinforced key holes.	_____	_____
Ditch Gates:	Three 12"X18" vertically sliding with removable handle extensions	_____	_____
Cab Shield:	18 gauge 1/2 cab shield	_____	_____
Rub Rails:	F4 X 4 Aption side rub rails, full length both sides except where bed liner is mounted.	_____	_____
Frame Cushions:	1" X 4" Aption bed cushions	_____	_____

SPECIFICATIONS

		<u>Yes</u>	<u>No</u>
Spreader Apron:	7 gauge, 9" wide. Designed to provide placement of material within the County's existing self propelled paver and conveyor with no material loss.	___	___
Light Kit:	All standard SMVSS flush mounted reflectors, oval cutouts only for 2 tail lights per side, lower lights shall be LED stop tail, upper lights shall be amber strobes. All lighting on the truck shall be LED except where not available. Install 2 amber forward facing oval strobes above headlight area.	___	___
Hoist:	VTLW 63110 NTEA rated class 110, 37.8 ton with a frameless front mount	___	___
Pump:	Direct mount Permco F35DL 35 gpm @ 1,400 RPM	___	___
Reservoir:	220 gallon polyurethane mounted under doghouse.	___	___
Bed Ladder:	Curbside, fold down	___	___
Mud Flaps:	"Quick Flaps" brackets and flaps	___	___
Trailer Package:	Hitch plate package with both air and electric connections and D rings	___	___
Tool Box:	One 18" X 18" X 48" weather tight tool box painted black to match frame or aluminum diamond plate	___	___
Bed Tarp:	One "Supershield" 8.5 pull tarp/mesh without flaps	___	___
Conveyor Attachments:	Install all required "HTC" conveyor hydraulic and light connections for operation of the County's existing equipment. Exact location will be discussed with the successful bidder.	___	___
Tool Rack:	Fabricate and install tool rack between dump box and CNG storage with hinged door.	___	___

Exceptions: _____
